



PATENT

Docket No.: I9000.0058/P058

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:  
Marit Nilsen-Hamilton

**BEST AVAILABLE COPY**

Serial No.: 10/809,886

Group Art Unit: 1635

Filed: March 26, 2004

Examiner: Kimberly Chong

For: ALLOSTERIC PROBES AND  
METHODS

Assistant Commissioner for Patents  
Washington, D.C. 20231

**DECLARATION OF MARIT NILSEN-HAMILTON UNDER**  
**37 CFR 1.131**

Dear Sir:

I, Marit Nilsen-Hamilton, declare and state as follows:

1. I am of legal age, and under no disability that prevents me from attesting to the following statements and information, which are based on my personal knowledge and observations or on my best information and belief.

2. I reside at 1111 N. Hyland Avenue, Ames, Iowa 50014.

3. I am the sole inventor of the above-identified U.S. patent application (the "886 application"), filed on March 26, 2004, as evidenced by the attached executed Declaration (Exhibit A).

considered  
Kimberly Chong  
12/20/06



4. I reviewed and understand the above-identified U.S. patent application including the currently pending claims and amendments (the "Claimed Invention").

5. I conceived of and reduced to practice the invention covered by the Claimed Invention prior to April 24, 2002. My reduction to practice of the Claimed Invention is evidenced by Exhibits B-D, which are summaries documenting work I directed and supervised. Specifically, Exhibits B-D are photocopies of handwritten notes, and electronic summaries of the handwritten notes, both created by my student who conducted experiments under my direction and supervision. Each of the experiments summarized in Exhibits B-D was conducted by my student under my direction and supervision prior to April 24, 2002, although the electronic summaries were printed after April 24, 2002. The actual dates that the experiments were conducted have been blanked out, as has any description not relevant to the conception of the Claimed Invention; however, the dates are all prior to April 24, 2002.

6. Exhibits B-D shows the results of an experiments involving CLAMP 609, which is a probe for binding a plurality of targets comprising an allosteric regulator linked to at least one regulated aptamer. Specifically, as noted in Exhibit D, CLAMP 609 includes an allosteric regulator, which is a nucleic acid molecule, linked to a regulated aptamer in cis configuration.

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7. The experimental results described in Exhibits B-D show that binding the allosteric regulator with a first target enhances the binding of the at least one regulated aptamer to at least one second target. Specifically, as shown in Exhibits B-D, when neomycin binds the allosteric regulator of the CLAMP 609, the regulated aptamer is increasingly able to bind ATP.

8. Thus, Exhibits B-D show that, prior to April 24, 2002, the Claimed Invention was reduced to practice under my direction and supervision.

All statements made herein of my own knowledge are true, and all statements made on information and belief are believed to be true. All statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the above-identified patent.

Date: 9/27/06By: Marit Nilsen-Hamilton

Marit Nilsen-Hamilton